INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/34236

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C10M 145/14 US CL : 508/469, 472; 252/79					
US CL: 508/469, 472; 252/79 According to International Patent Classification (IPC) or to both national classification and IPC					
		ay classification symbols)			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 508/469, 472; 252/79					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST search terms: block copolymer, amphiphilic, acrylate, acrylic, lubricant					
C. DOCT	IMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a		Relevant to claim No.		
Y	US 6,350,723 B1 (MISHRA et al) 26 February 2002 column 7, lines 25-38.	2 (26.02.2002), column 2, lines 16-52;	19-22, 27, 33-37		
Y	US 5,272,211 A (SUTHERLAND et al) 21 Decemb to column 2, line 65.	er 1993 (21.12.1993), column 1,line 42	19-22, 27, 33-37		
Y .	US 5,002,676 A (WILLIS et al) 26 March 1991 (26 column 6, lines 42-62.	.03.1991), column 2, lines 25-63;	19-22, 27, 33-37		
A	US 6,617,397 B2 (MCNAMARA et al) 09 September 4-38.	er 2003 (09.09.2003), column 5, lines	1-37		
A	US 6,271,184 A (SEEBAUER et al) 07 August 2001	(07.08.2001), column 2, line 64 to	1-37		
A	column 3, line 15. US 5,955,405 A (LIESEN et al) 21 September 1999	(21.09.1999), column 2, lines 16-60.	1-37		
A US 4,756,843 A (JARRIN et al) 12 July 1988 (12.07)		7.1988), column 2, lines 28-68; column	1-37		
Further	documents are listed in the continuation of Box C.	See patent family annex.			
* S _I	Special categories of cited documents: "T" later document published after the international filing date or prior date and not in conflict with the application but cited to understan				
	defining the general state of the art which is not considered to be lar relevance	principle or theory underlying the inve	ention		
"E" earlier app	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be conside when the document is taken alone			
	which may throw doubts on priority claim(s) or which is cited to he publication date of another citation or other special reason (as	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the			
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family .			
		Date of mailing of the international search 12 APR 2			
	05 (30.03.2005)				
	iling address of the ISA/US	Authorized officer			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Glenn Caldarola Muffill			
P.O. Box 1450					
Alexandria, Virginia 22313-1450		Telephone No. (571) 272-1700			
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International application No.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of: a. type of material a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in the international application as filed filed together with the international application in computer readable form
furnished subsequently to this Authority for the purposes of search
2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:
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Form PCT/ISA/210 (continuation of first sheet(1)) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/34236

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: 1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
•		
Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows:		
 As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: 		
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest.		
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.		

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)